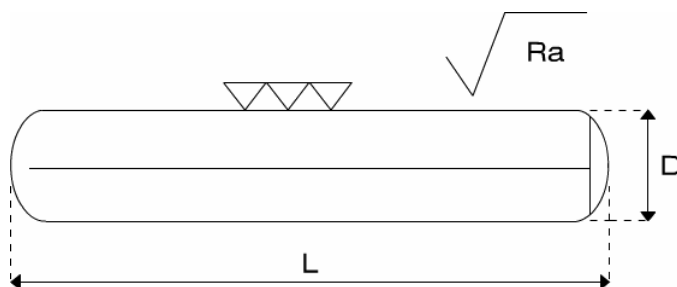


CYLINDRICAL GROUND PINS



Our cylindrical pins have the same mechanical and usage features as cylindrical pins according to DIN 6325 and are product with both ends rounded.

MATERIALS NORMALLY USED

Production of cylindrical pins is mainly realized by using bearing steel **UNI 100 Cr 6**.

100Cr6 is a steel used in over 90% of roller bearings, thanks to its properties:

- high resistance to adhesive wear , also thanks to lubrication.
- resistance to abrasive wear due to low non-metallic inclusions and uniformity in the distribution of hard carbides which grind any inclusions ;
- Resistance to fatigue due to homogeneity of the structure: the steel is core hardened due to the presence of chromium.

Cylindrical pins are core hardened and tempered with value **HRC 58 – 65** (670 / 840 HV) in order to achieve the maximum mechanical strength.

Chemical composition :

Material	C %	Mn %	Si %	P %	S %	Cr %
100Cr6	0,93 ÷ 1,05	0,25 ÷ 0,45	0,15 ÷ 0,35	≤ 0,015	≤ 0,025	1,35 ÷ 1,60

International equivalents:

ITALY	SPAIN	GERMANY	CHINA	USA
UNI 100 Cr 6	UNE F 1310	W. nr. 1.3505	GCr15	AISI/SAE 52100

Cylindrical pins can be manufactured with special steel like:

AISI 302	AISI 304	AISI 316	AISI 420-C

PRODUCT RANGE

Cylindrical pins are produced in standard and special sizes:

- Diameter from 2,0 mm. to 6,0 mm.
- Length from 6,0 mm. to 100,0mm.

TECHNICAL CHARACTERISTIC

TYPE	DIAMETER mm.		DIAMETER TOLERANCE (μ m)	LENGTH TOLERANCE (mm)
	FROM	TO		
m6	-	3	+ 2 + 8	± 0,300
	3	6	+ 4 + 12	
h6	-	3	+ 0 - 6	
	3	6	+ 0 - 8	

Cylindrical ground pins can be manufactured with different types of materials and tolerances, if the quantity required is enough for a production.

CYLINDRIC PINS NORMALLY PRODUCT

D x L (mm)	D x L (mm)	D x L (mm)	D x L (mm)	D x L (mm)
2 x 8	3 x 24	4 x 32	5 x 30	6 x 20
2 x 10	3 x 28	4 x 36	5 x 32	6 x 24
2 x 12	3 x 30	4 x 40	5 x 36	6 x 25
2 x 14	3 x 32	4 x 50	5 x 40	6 x 28
2 x 16	3 x 36	4 x 55	5 x 45	6 x 30
2 x 18	3 x 40	4 x 60	5 x 50	6 x 32
2 x 20	3 x 50	4 x 70	5 x 60	6 x 36
2 x 24	4 x 8	4 x 80	5 x 70	6 x 40
2,5 x 6	4 x 10	5 x 10	5 x 80	6 x 45
3 x 8	4 x 12	5 x 12	5 x 90	6 x 50
3 x 10	4 x 14	5 x 16	5 x 100	6 x 60
3 x 12	4 x 16	5 x 18	6 x 10	6 x 70
3 x 14	4 x 18	5 x 20	6 x 12	6 x 80
3 x 16	4 x 20	5 x 24	6 x 14	6 x 90
3 x 18	4 x 25	5 x 25	6 x 16	6 x 100
3 x 20	4 x 28	5 x 28	6 x 18	



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